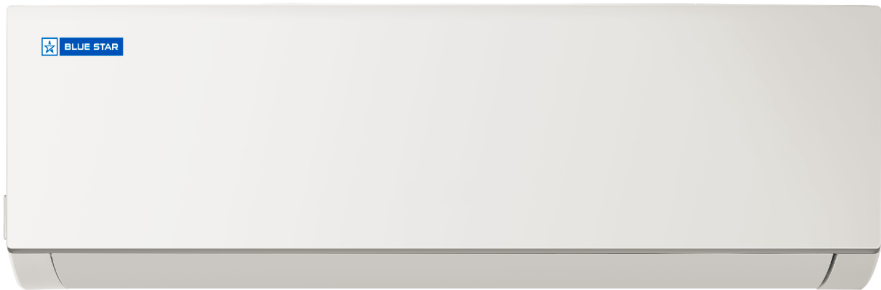




BLUE STAR

Hi-Wall Split Air Conditioners

(J Series & D Series - T3 Fixed Speed Cool Only)



User's Manual



First Published - July, 2018

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Letter from the CEO

Dear Customer,

Congratulations on the purchase of your new high performance and energy-efficient Blue Star product, one amongst the many world-class solutions that Blue Star manufactures and markets around the globe.

This superior product has been designed for optimum performance even under harsh ambient conditions. It has been manufactured with the best available materials, with stringent quality control measures undertaken during all the manufacturing processes. It has been tested under actual operating conditions in our factory labs to ensure that you get years of satisfactory and trouble-free performance.

We are confident that time and performance will justify the trust you have placed in this product.

This manual will help you get the best out of your machine. We urge you therefore to spare some time to go through it in detail.

In the unlikely event of your product running into a problem, kindly first check the Troubleshooting Chart contained in this manual. There may be a simple solution to the problem. If this does not help, please contact your nearest Blue Star dealer for expert assistance. You can also reach us on globalexpertservice@bluestarindia.com for any assistance.

We look forward to a long and mutually satisfying association with you.

With warm regards,

Dawood Bin Ozair,

Chief Executive Officer,

Blue Star International FZCO



Safety Instructions

- To guarantee the unit works normally, please read the manual carefully before installation, and try to install strictly according to this manual.
- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- Earth the air conditioner properly.
- Check the connecting cables and pipes carefully, make sure they are correct and firm before connecting the power of the air conditioner.
- There must be an air-break switch.
- After installing, the consumer must operate the air conditioner correctly according to this manual, keep a suitable storage for maintenance and moving of the air conditioner in the future.
- Type of fuse used on indoor unit controller is $\Phi 5 \times 20$, with rating 3.15 A / 250 V.
- A residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- **Warning:** Risk of electric shock can cause injury or death. Disconnect all remote electric power supplies before servicing.
- Recommended pipe should not exceed 5m. If need to exceed the pipe length, U Trap is required after every 5m length for oil return to the compressor.
- This appliance can be used by children aged from 8 years and above and persons with the reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The batteries in remote controller must be recycled or disposed of properly. Please discard the batteries as sorted municipal waste at the accessible collection point.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- The air conditioner must be installed by professional or qualified persons.
- The appliance shall not be installed in the laundry area / washroom.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.



Warning: Electrical instructions

Power supply: the electrical installation must be in accordance with the local power standard in particular for earthing plug. We cannot be held responsible for any incident caused by a faulty electrical installation.

Advices for the electrical installation of your device:

- Don't use receptacle extension, adapter or multiple receptacle
- Never eliminate the earthing plug
- The electrical outlet must be easily accessible but out of reach from children



Preparation before use

Before using the air conditioner, be sure to check and preset as the following.

- **Remote Controller presetting**

Each time after the remote control is replaced with new batteries or is energized, remote control auto presetting heat pump. If the air conditioner you purchased is a Cooling Only one, heat pump remote controller can also be used.

- **Back-light function**

Hold down any button of the remote controller for about 2 seconds, the back-light will be turned on. It will be turned off automatically after about 10 seconds.

- **Auto Restart Presetting**

The air conditioner has Auto-Restart function, you can set or cancel this function when the air conditioner is running.

- Hold down the emergency button (ON/OFF) for a few seconds, this function will be set if you hear beep twice. If you just hear beep once, this function will be cancelled.

Safeguarding the environment

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.





Safety Precautions

Symbols in this manual are interpreted as shown below.



Be sure not to do.



Grounding is essential.



Pay attention to such a situation.



Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.



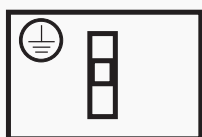
Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire may break out



Keep the power supply circuit breaker or plug away from dirt. Connect the power supply cord to it firmly and correctly. Insufficient contact might lead to shock or fire break out.



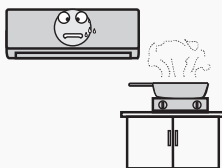
Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.



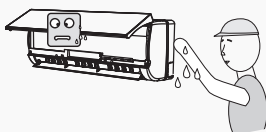
It is the user's responsibility to make sure the appliance be grounded according to local codes or ordinances by a licenced technician.



It is harmful to your health if the cool air reaches you for a long time. It is advisable to let the air flow be deflected to entire room



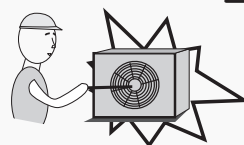
Prevent the air flow from reaching the gas burners and stove.



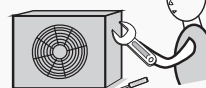
Do not touch the operation buttons when your hands are wet.



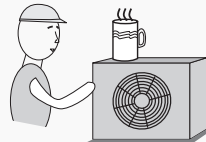
Turn off the appliance by remote control firstly before cutting off power supply if malfunction occurs.



Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speeds, this may cause an injury



Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.



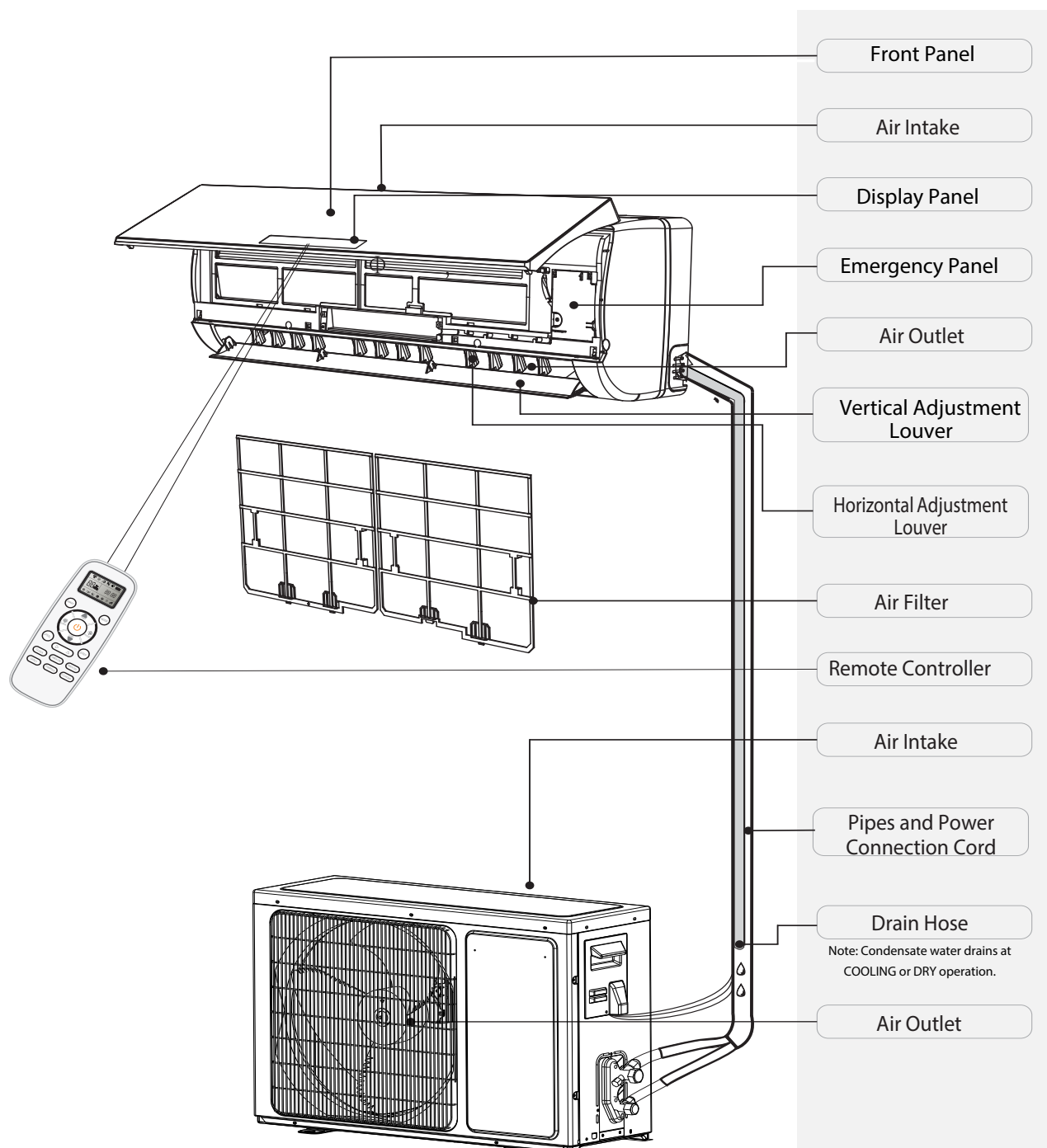
Do not keep any objects on the outdoor unit.



Do not knit, pull or press the power supply cord, else the power cord will break. An electric shock or fire may be caused by a broken power supply cord.



Identification of parts



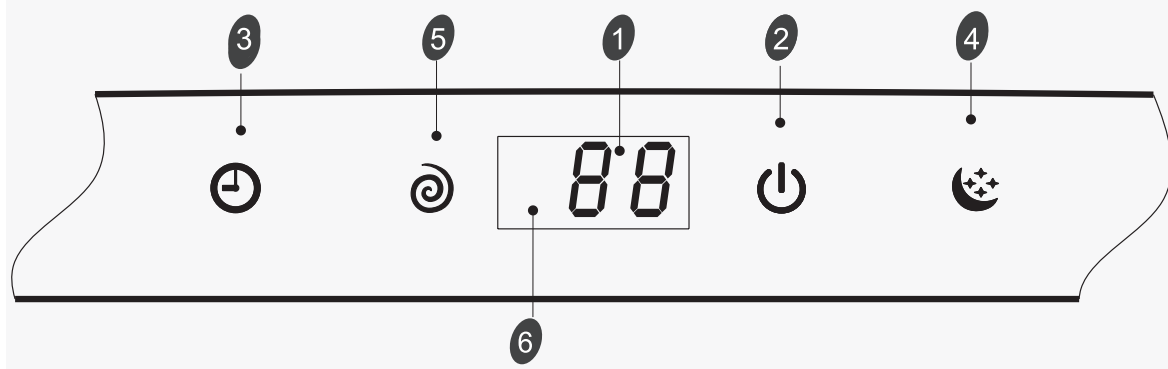
☑ The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.



Display introduction

- | | |
|--|--|
| | <p>Temperature indicator ----- 1</p> <p>Display set temperature.
It shows FC after 200 hours of usage as reminder to clean the filter.
After filter cleaning press the filter reset button located on the indoor unit behind the frontpanel in order to reset the display. (optional)</p> |
| | <p>Running indicator ----- 2</p> <p>It lights up when the AC is running.
It flashes during defrosting.</p> |
| | <p>Timer indicator ----- 3</p> <p>It lights up during set time.</p> |
| | <p>Sleep indicator ----- 4</p> <p>It lights up in sleep mode.</p> |
| | <p>Compressor indicator ----- 5</p> <p>It lights up when the compressor is on.</p> |
| | <p>Signal Receptor ----- 6</p> |

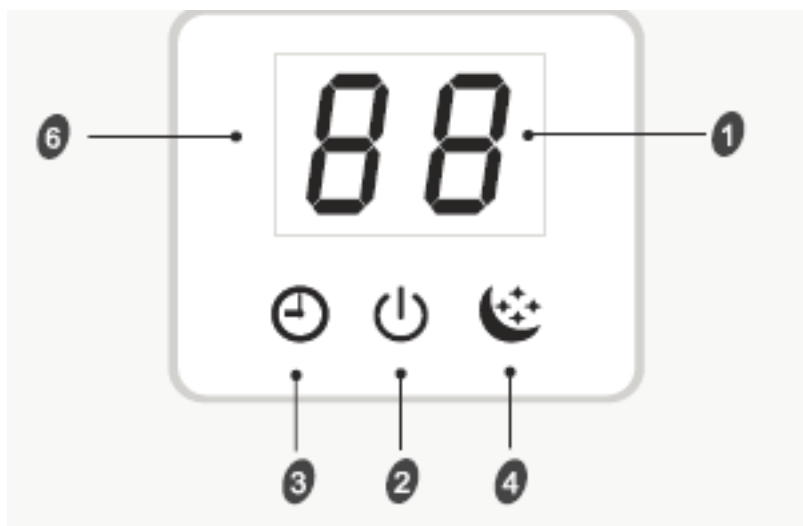
DA Series





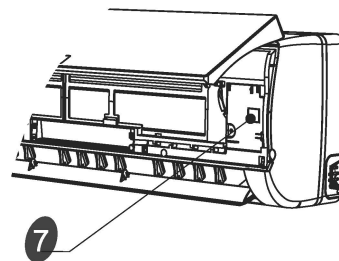
Display introduction

DJ Series



Emergency button 7

ON/OFF To let the AC run or stop by pressing the button.

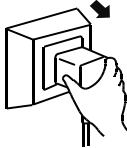
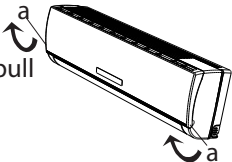


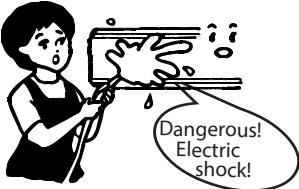
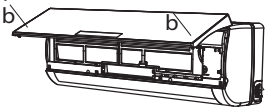


 **The symbols may be different from these models, but the functions are similar.**

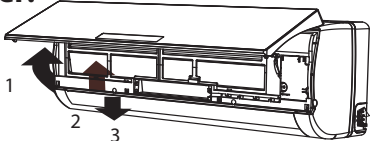



Maintenance

♦ Front panel maintenance

<p>1 Cut off the power supply</p> <p>Turn off the appliance first before disconnecting from power supply.</p> 	<p>2</p> <p>Grasp position "a" and pull outward to remove the front panel.</p> 
<p>3 Wipe with a soft and dry cloth.</p> <p>Use soft moisture cloth to clean if the front panel is very dirty.</p>  <p>Use a dry and soft cloth to clean it.</p>	<p>4 Never use volatile substance such as gasoline or polishing powder to clean the appliance.</p> 
<p>5 Never sprinkle water onto the indoor unit</p>  <p>Dangerous! Electric shock!</p>	<p>6 Reinstall and shut the front panel.</p> <p>Reinstall and shut the front panel by pressing position "b" downward.</p> 

♦ Air filter maintenance

<p>1 Stop the appliance, cut off the power supply and remove the air filter.</p>  <ol style="list-style-type: none"> 1. Open the front panel. 2. Press the handle of the filter gently from the front. 3. Grasp the handle and slide out the filter. 	<p>2 Clean and reinstall the air filter.</p> <p>If the dirt is conspicuous, wash it with a solution of detergent in lukewarm water. After cleaning, dry well in shade.</p> 
<p>3 Close the front panel again.</p> <p>☑ Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.</p>	<p>Note: It is necessary to clean the air filter after using it for about 100 hours.</p>



Protection

◆ Operating condition

The protective device may trip and stop the appliance in the cases listed below:

COOLING	Outdoor air temperature is over 55°C
	Room temperature is below 21°C
DRY	Room temperature is below 18°C

The temperature of some products is allowed beyond this range. In specific situation, please consult the merchant. If the air conditioner runs in COOLING or DRY mode with door or window opened for a long time when relative humidity is above 80%, dew may drip down from the outlet.

◆ Noise pollution

- Install the air conditioner at a place that can bear its weight in order to operate more quietly.
- Install the outdoor unit at a place where the air discharged and the operation noise would not annoy your neighbours.
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

◆ Features of protector

1. The protective device will work for the following cases:
 - Restarting the unit after operation stops or changing mode during operation, you need to wait for 3 minutes.
 - Connect to power supply and turn on the unit at once, it may start 20 seconds later.
2. If all operation has stopped, press **ON/OFF** button again to restart, Timer should be set again if it has been cancelled.

◆ Features of HEATING mode (Not Applicable)

Preheat

At the beginning of the HEATING operation, the airflow from the indoor unit is discharged 2-5 minutes later.

Defrost


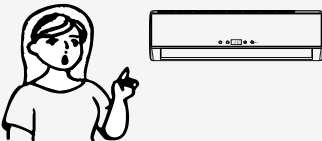
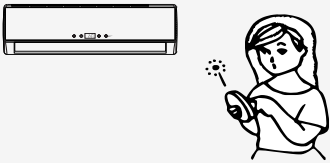
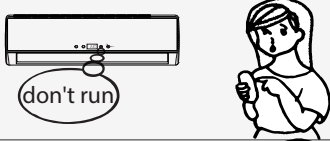
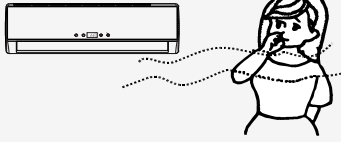
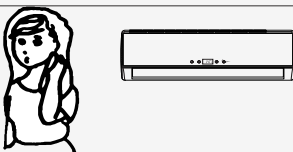
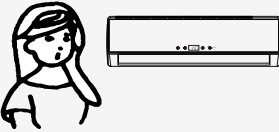
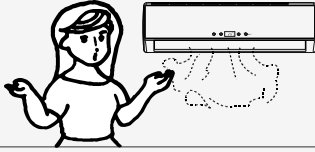
In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to **HEATING** mode automatically.

Note: Heating mode is NOT available for cooling only air conditioner models.



Troubleshooting

The following cases may not always be a malfunction, please check it before asking for service.

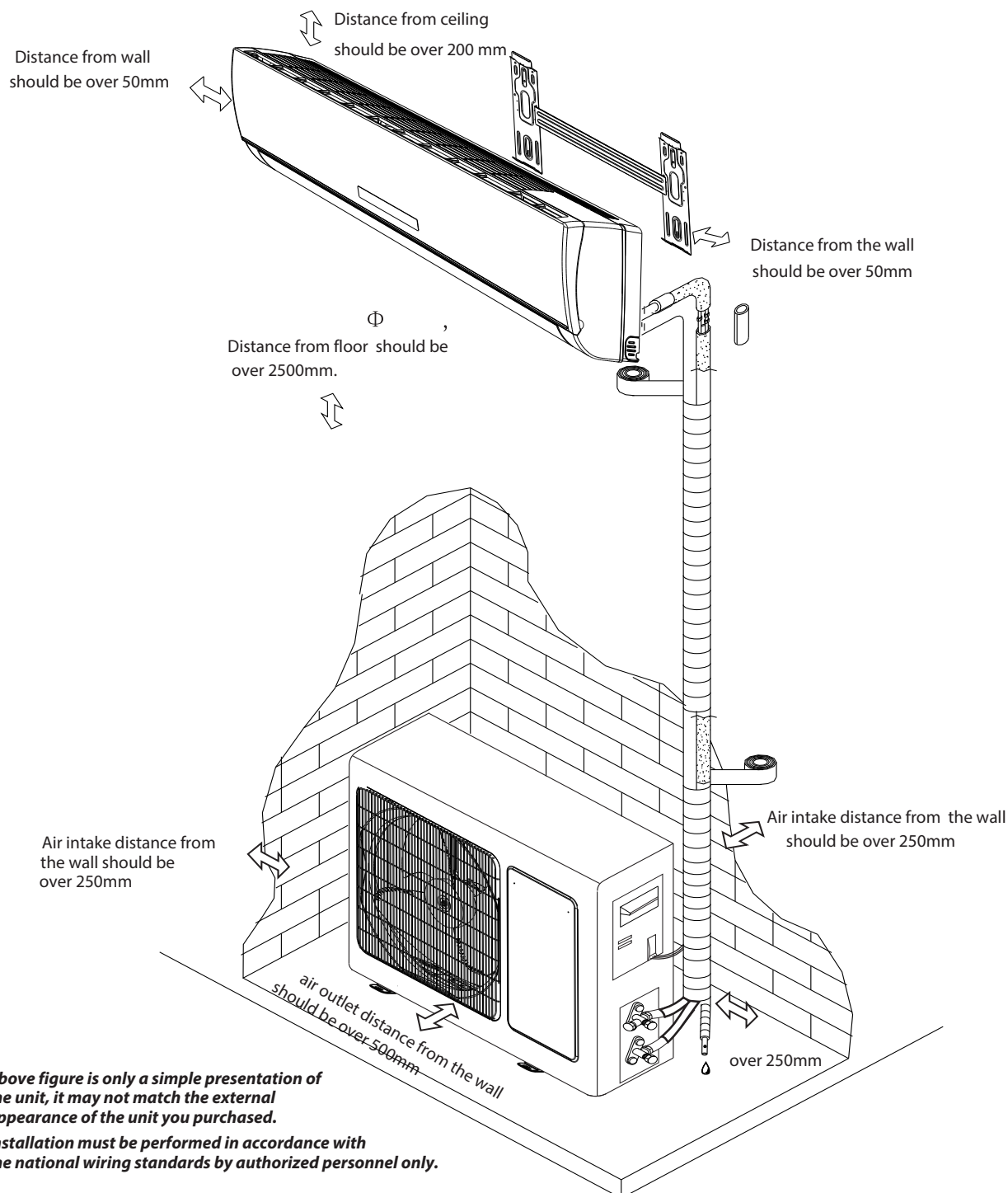
Trouble	Analysis
Does not run 	<ul style="list-style-type: none"> • If the protector trips or fuse is blown, please wait for 3 minutes and start again, the protector device may be preventing the unit to work. • If batteries in the remote controller are exhausted. • If the plug is not properly plugged.
No cooling or heating air 	<ul style="list-style-type: none"> • Is the air filter dirty? • Are the intakes and outlets of the air conditioner blocked? • Is the temperature set properly?
Ineffective control 	<ul style="list-style-type: none"> • If strong interference (from excessive static electricity discharge, power supply voltage abnormality) presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later.
Does not operate immediately 	<ul style="list-style-type: none"> • Changing mode during operation, there will be a 3 minute delay.
Peculiar odor 	<ul style="list-style-type: none"> • This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water 	<ul style="list-style-type: none"> • Caused by the flow of refrigerant in the air conditioner, not a trouble.
Cracking sound is heard 	<ul style="list-style-type: none"> • The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spray mist from the outlet 	<ul style="list-style-type: none"> • Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode.
The compressor indicator (red) lights on constantly, and indoor fan stops.	<ul style="list-style-type: none"> • The unit is shifting from heating mode to defrost. The indicator lights off within ten minutes and returns to heating mode.

Note: Heating mode is NOT available for cooling only air conditioner models.



Installation instructions

Installation diagram



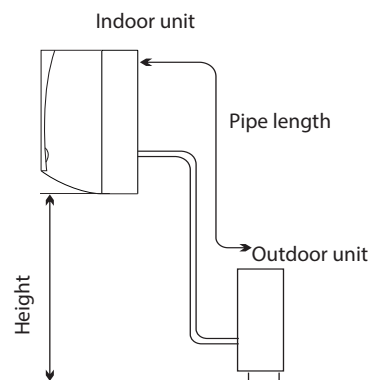


Installation instructions

Select the installation location

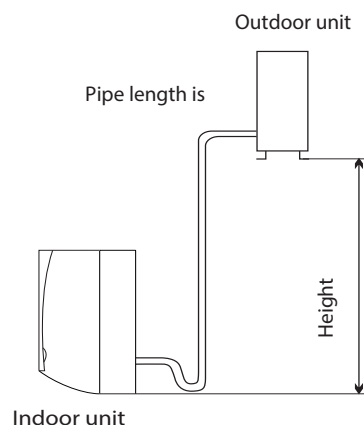
Location for Installing Indoor Unit

- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page. Where the air filter can be easily removed.
- Keep the unit and remote controller 1m or more apart from television, radio etc.
- To prevent the effects of a fluorescent lamps, keep as far as possible.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Where there is strong enough to bear the weight and is not tend to increase operation noise and vibration.



Location for Installing Outdoor Unit

- Where it is convenient to install and well ventilated.
- Avoid installing it where flammable gas could leak.
- Keep the required distance apart from the wall.
- Recommended pipe should not exceed 5m. If need to exceed the pipe length, U Trap is required after every 5m length for oil return to the compressor. For further piping details refer table below.
- Keep the outdoor unit away from a place of greasy dirt, vulcanization gas exit.
- Avoid installing it at the roadside where there is a risk of muddy water.
- A fixed base where is not subject to increasing operation noise.
- Where there is not any blockage for air outlet.



Series	Model	Length of pipe with standard charge	Limit of Tubing Length (m)	Limit of Elevation Difference H (m)	Required Amount of additional refrigerant (g/m)
CJRRA	18k	5	25	10	20
	24k	5	25	10	30
CDRRA	30k	5	25	10	40
	36k	5	25	10	40
CJYRA	18k	5	15	5	20
	24k	5	20	10	30
CDYRA	30k	5	20	10	40
CJYFA	18k	5	25	10	20
	24k	5	25	10	30
CDYFA	30k	5	25	10	40
	36k	5	25	10	30

If the height or pipe length is out of the scope of the table, please consult the merchant.

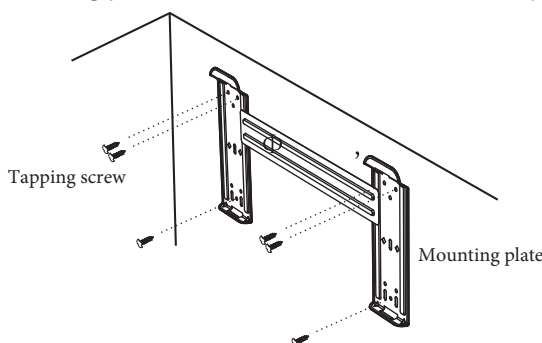


Installation instructions

Indoor unit installation

1. Installing the Mounting Plate

- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- Drill holes of 32mm in depth on the wall for fixing the plate.
- Insert the plastic plugs to the hole, fix the mounting plate with tapping screws.
- Inspect if the mounting plate is well fixed. Then drill a hole for piping.

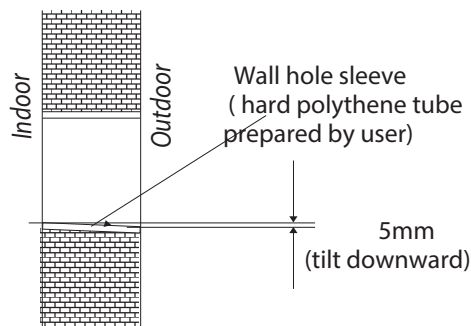


Note: The shape of your mounting plate may be different from the one above, but the installation method is similar.

Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.

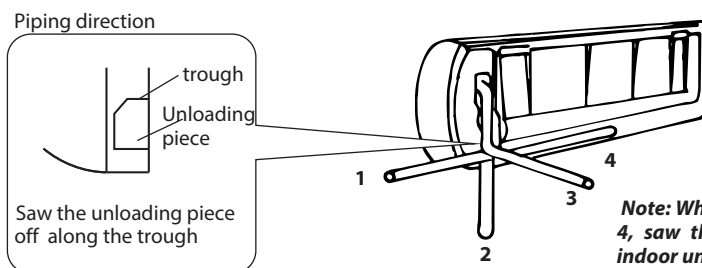
2. Drill a Hole for Piping

- Decide the position of hole for piping according to the location of mounting plate.
- Drill a hole on the wall. The hole should tilt a little downward towards outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.



3. Indoor Unit Piping Installation

- Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection complete so as to connect to outdoor unit. Decide whether saw the unloading piece off in accordance with the piping direction.(as shown below)



Note: When installing the pipe at the directions 1,2 or 4, saw the corresponding unloading piece off the indoor unit base.

- After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.

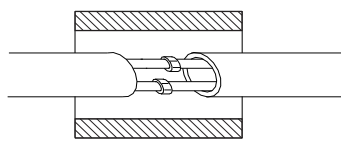


Installation instructions

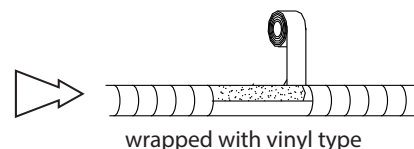


• Piping Joints Thermal Insulation:

Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.



Thermal insulation



wrapped with vinyl type

• Piping Thermal Insulation:

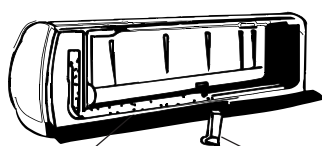
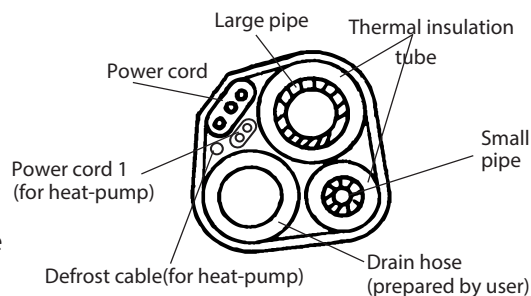
- Insulation material uses polythene foam over 6mm in thickness.
- Place the drain hose under the piping.

Note: Drain hose is prepared by user.

- Drain pipe should point downward for easy drain flow. Do not arrange the drain pipe twisted, sticking out or wave around, do not immerse the end of it in water.

If an extension drain hose is connected to the drain pipe, make sure to thermal insulated when passing along the indoor unit.

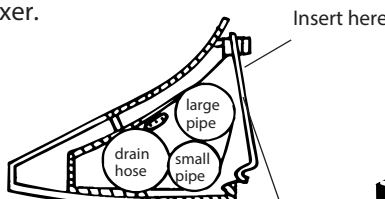
- When the piping is directed to the right, piping, power cord and drain pipe should be thermal insulated and fixed onto the back of the unit with a piping fixer.



Base

Piping fixer

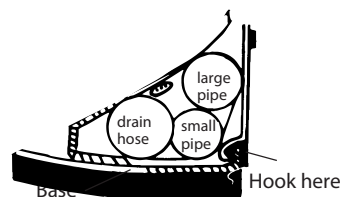
A. Insert the pipe fixer to the slot.



Base

Piping fixer

B. Press to hook the pipe fixer onto the base.



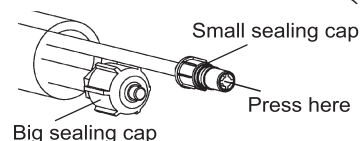
Base

Hook here

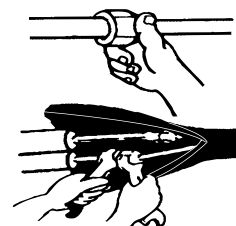
Piping Connection:

- Before unscrewing the big and the small sealing caps, press the small sealing cap with the finger until the exhaust noise stops, and then loosen the finger.
- Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- Pre-tighten them with fingers at first, then use the wrenches.

☑ If you don't hear the exhaust noise, please contact with the merchant.



Big sealing cap



Series	Model	Pipe Size	Torque	Nut width	Min. thickness
CJRRRA	18k, 24k	Liquid Size (φ 6.35mm or 1/4 inch)	15~20N.m	17mm	0.5mm
CDRRA	30k, 36k	Liquid Size (φ 9.53mm or 3/8 inch)	30~35N.m	22mm	0.6mm
CJRRRA	18k	Gas Side (φ 12.7mm or 1/2 inch)	50~55N.m	24mm	0.6mm
CJRRRA, CDRRA	24k, 30k	Gas Side (φ 15.88mm or 5/8 inch)	60~65N.m	27mm	1.0mm
CDRRA	36k	Gas Side (φ 19mm or 3/4 inch)	70~75N.m	32mm	1.0mm
CJYRA	18k	Liquid Size (φ 6.35mm or 1/4 inch)	15~20N.m	17mm	0.5mm
CJYRA, CDYRA	24k, 30k	Liquid Size (φ 9.53mm or 3/8 inch)	30~35N.m	22mm	0.6mm
CJYRA	18k	Gas Side (φ 12.7mm or 1/2 inch)	50~55N.m	24mm	0.6mm
CJYRA, CDYRA	24k, 30k	Gas Side (φ 15.88mm or 5/8 inch)	60~65N.m	27mm	1.0mm
CJYFA	18k	Liquid Size (φ 6.35mm or 1/4 inch)	15~20N.m	17mm	0.5mm
CJYFA, CDYFA	24k, 30k, 36k	Liquid Size (φ 9.53mm or 3/8 inch)	30~35N.m	22mm	0.6mm
CJYFA	18k	Gas Side (φ 12.7mm or 1/2 inch)	50~55N.m	24mm	0.6mm
CJYFA, CDYFA	24k, 30k, 36k	Gas Side (φ 15.88mm or 5/8 inch)	60~65N.m	27mm	1.0mm



Installation instructions

4. Connecting of the Cable

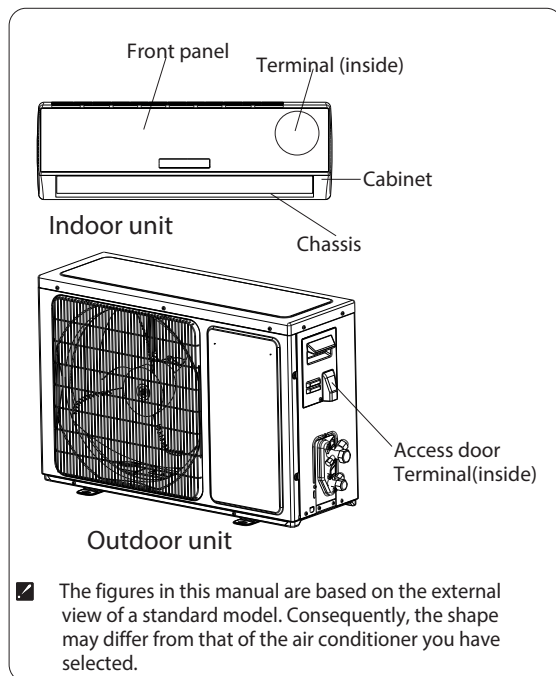
• Indoor Unit

Connect the power connecting cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to indoor unit terminal.

• Outdoor Unit

- 1). Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as the following.
- 2). Secure the power connecting cord onto the control board with cable clamp.
- 3). Reinstall the access door to the original position with the screw.
- 4) Use a recognized circuit breaker for 24K model or above between the power source and the unit.
A disconnecting device to adequately disconnected all supply lines must be fitted.



Caution:

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door .
2. Confirm that the cable thickness is as specified in the power source specification.
3. Check the wires and make sure that they are all tightly fastened after cable connection.
4. Be sure to install an earth leakage circuit breaker in wet or moist area.

Cable Specifications

Series	Model	Power cord		Power connecting cord	
		Type	Normal Cross-Sectional Area	Type	Normal Cross-Sectional Area
CJRRA	18k	H05VV-F	3x2.5mm ²	H07RN-F	3X2.5mm ²
	24k	H05VV-F	3x2.5mm ²	H07RN-F	3x2.5mm ²
CDRRA	30k	H07RN-F	3x2.5mm ²	H07RN-F	4x1.0mm ²
	36k	H07RN-F	3x4mm ²	H07RN-F	4x1.0mm ² 4x1.5mm ²
CJYRA	18k	H05VV-F	3x2.5mm ²	H07RN-F	3X2.5mm ²
	24k	H05VV-F	3x2.5mm ²	H07RN-F	3x2.5mm ²
CDYRA	30k	H07RN-F	3x4mm ²	H07RN-F	4x1.0mm ²
CJYFA	18k	H05VV-F	3x1.5mm ²	H07RN-F	4X1.5mm ²
	24k	H05VV-F	3x2.5mm ²	H07RN-F	4x2.5mm ²
CDYFA	30k	H07RN-F	3x2.5mm ²	H07RN-F	4x1.0mm ²
	36k	H07RN-F	3x4mm ²	H07RN-F	4x1.0mm ²

The cord may be different from the list above. It may be used as the next list. And it can be larger. 0-6A, use 0.75mm or 18AWG. 0-10A, use 1mm or 16AWG. 0-16A, use 1.5mm or 14AWG. 0-20A, use 2.5mm or 14AWG. 0-25A, use 2.5mm or 12AWG. 0-32A, use 4mm.



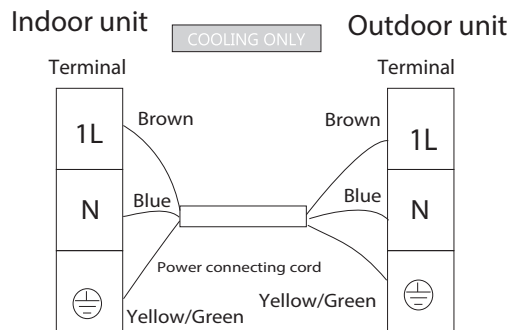
Installation instructions

Wiring Diagram

Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

Note: All the wires may be different colors. The indicators '1L 2L 3L' may be '4 5 6' or others.
And the terminal may be different from the material object.

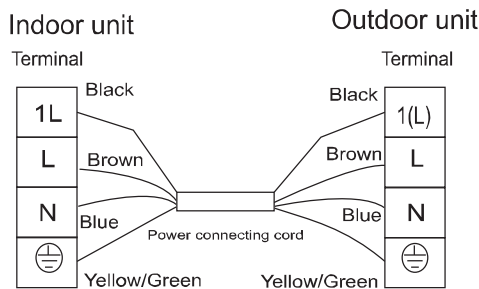
• CJRRA & CJYRA - 18k & 24k Model



For above models, the power supply are connected from indoor unit.

For these models, the ground wire may be connected to the electric box directly.

• CJYFA - 18k & 24K Model



For above models, the power supply are connected from indoor unit.

For these models, the ground wire may be connected to the electric box directly.



Installation instructions

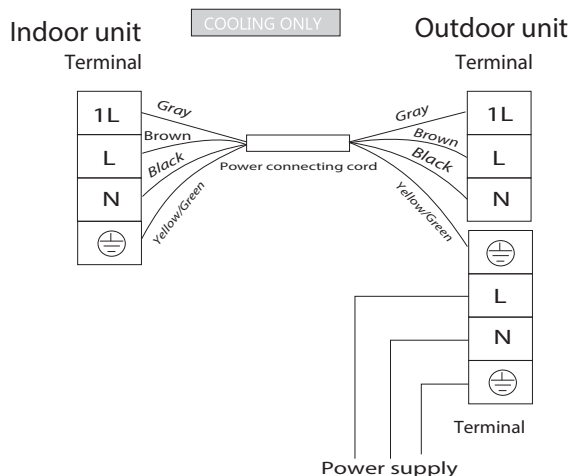
Wiring Diagram

Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

Note: All the wires may be different colors. The indicators '1L 2L 3L' may be '4 5 6' or others.

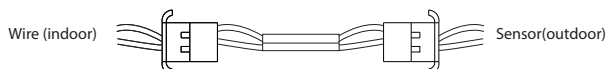
And the terminal may be different from the material object.

- **CDRRA, CDYRA & CDYFA - 30k Model**
CDRRA & CDYFA - 36k Model



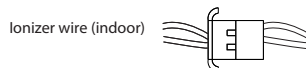
For these models, the power supply are connected from outdoor unit, with a circuit breaker.

- Overheat protection or high pressure protection cable (it's an optional part)



After connection, the wire should be well wrapped with a wrapping tape and the connector should be put inside the unit.

- Ionizer (The ionizer is an optional part)



After connection, the ionizer will work automatically.

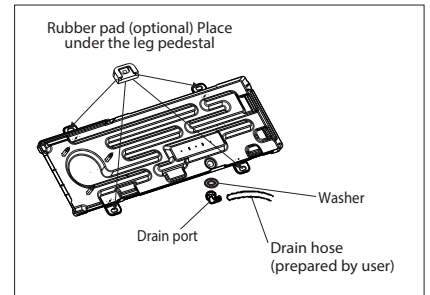


Installation instructions

Outdoor unit installation

1. Install Drain Port and Drain Hose (for heat-pump model only)

The condensate drains from the outdoor unit when the unit operates in heating mode. In order not to disturb your neighbor and protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure shown.



2. Install and Fix Outdoor Unit

Fix with bolts and nuts tightly on a flat and strong floor.

If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

3. Outdoor Unit Piping Connection

- Remove the valve caps from the 2-way and 3-way valve.
- Connect the pipes to the 2-way and 3-way valves separately according to the required torque.

4. Outdoor Unit Cable Connection (see previous page)

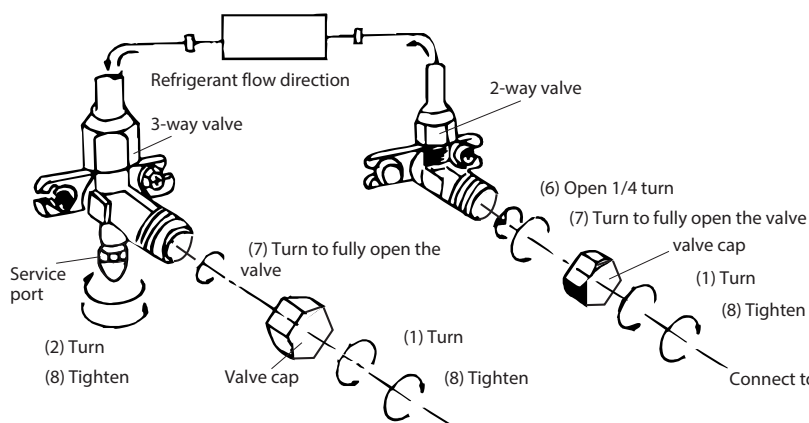
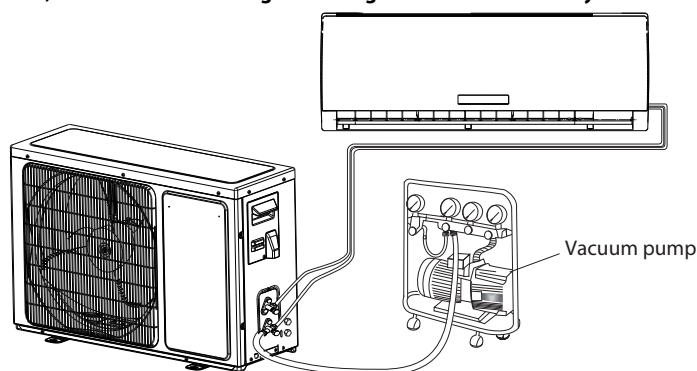


Installation instructions

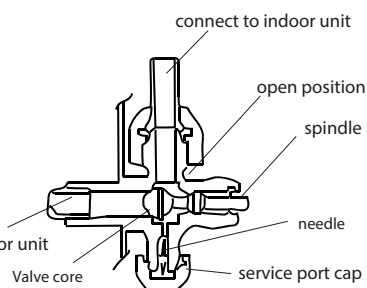
Air purging

The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, release air and moisture from the refrigerant cycle using a vacuum pump, as shown below.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.



3-way valve diagram



How to Purge Air Tubes:

- (1). Unscrew and remove caps from 2 and 3-way valves.
- (2). Unscrew and remove cap from service valve.
- (3). Connect vacuum pump flexible hose to the service valve.
- (4). Start vacuum pump for 10-15 minutes until reaching a vacuum of 10 mm Hg absolutes.
- (5). With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop vacuum pump.
- (6). Open 2-way valve 1/4 turn then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
- (7). Turn 2 and 3-way valves stem to fully the valves. Disconnect vacuum pump flexible hose.
- (8). Replace and tighten all valve caps.



Remote controller

Remote controller

The remote controller transmits signals to the system.

1 ON/OFF BUTTON

The unit can be On / OFF by pressing this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 SMART BUTTON

Used to enter preset temperature and air flow logic operation directly.

7 ◆ SWING BUTTON

Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

9 IFEEL BUTTON

Used to set IFEEL mode operation. Press it once, the IFEEL function will be started. Press it again, the IFEEL function will be shut off. Advice to put the remote controller in the place where the indoor unit receive signal easily. Advice to cancel the IFEEL mode so as to save energy when stopping the air conditioner.

10 SUPER BUTTON

Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 20°C set temp automatically ; Fast heating operates at auto fan speed with 28°C set temp automatically)

Indication symbols on LCD:



Cooling indicator



Auto fan speed



Smart indicator



Signal transmit



Dry indicator



High fan speed



Sleep indicator



ON 88:88

Display set timer



Fan only indicator



Medium fan speed



OFF 88:88

Display current time



Heating indicator



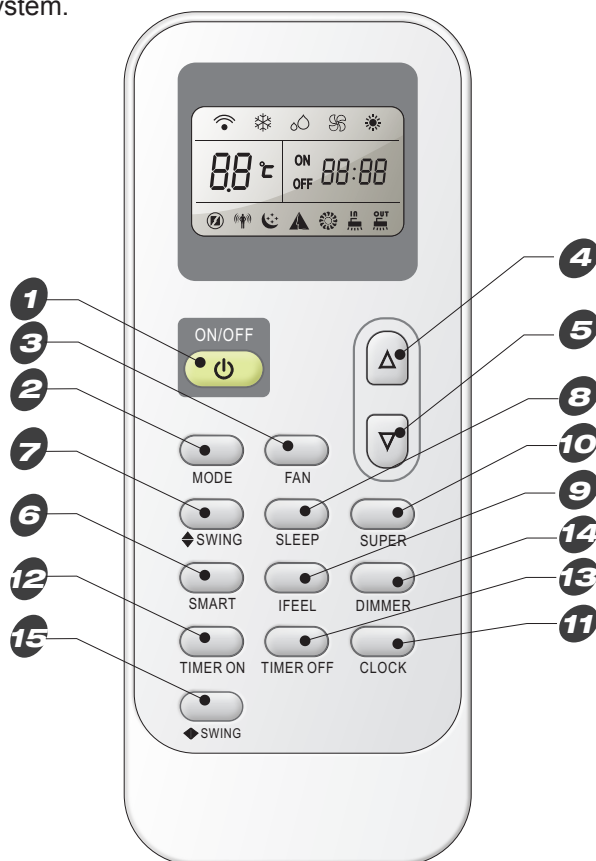
Low fan speed



88°C

Display temperature

Note: Each mode and relevant function will be further specified in following pages.



11 CLOCK BUTTON

Used to set the current time.

12 13 TIMER ON/OFF BUTTON

Used to set or cancel the timer operation.

14 DIMMER BUTTON

When you press this button, all the display of indoor unit will be closed. Press any button to resume display.

15 ◀▶ SWING BUTTON

Used to stop or start Horizontal adjustment louver swinging and set the desired left/right airflow direction.



Remote controller

Remote controller

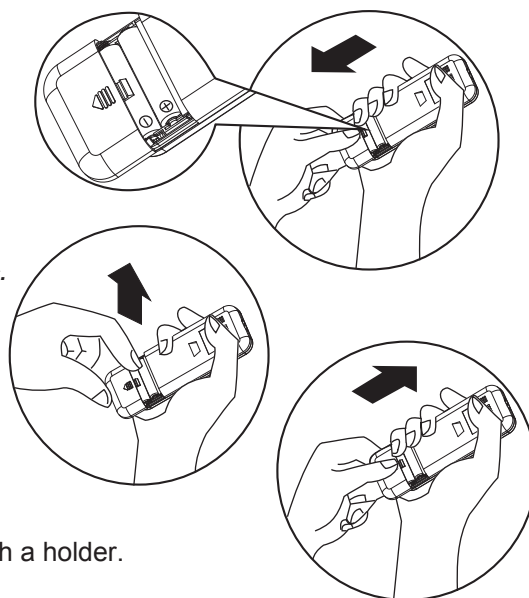
• How to Insert the Batteries

Remove the battery cover according to the arrow direction.
Insert new batteries making sure that the (+) and (-) of battery are matched correctly.

Reattach the cover by sliding it back into position.

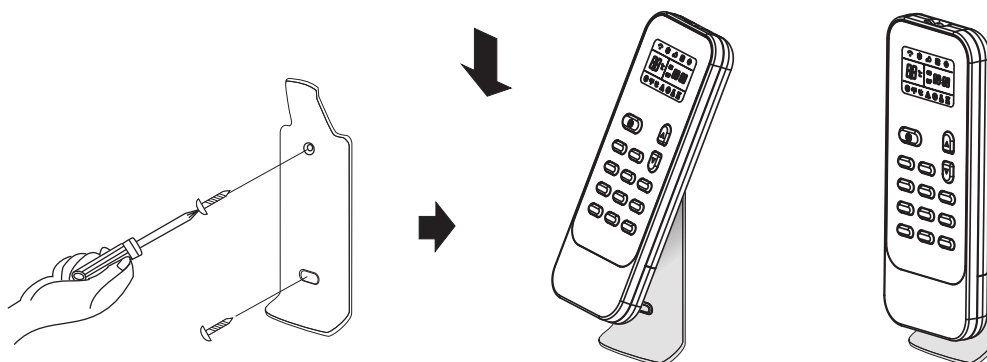
Note:

- Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.



• Storage and Tips for Using the Remote Controller

The remote controller may be stored mounted on a wall with a holder.



• How to Use

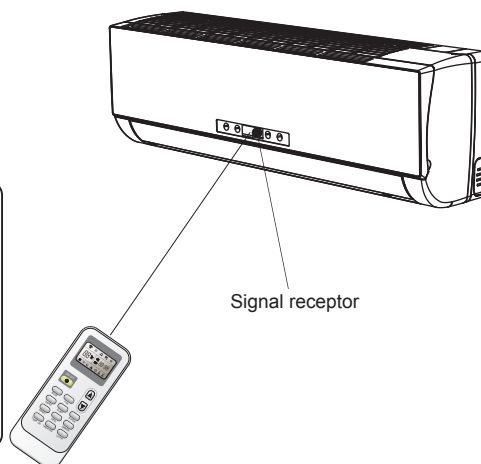
To operate the room air conditioner, aim the remote controller to the signal receptor.
The remote controller will operate the air conditioner at a distance of up to 7m when pointing at signal receptor of indoor unit.

⚠ CAUTIONS

For appropriate signal transmission between remote controller and indoor unit, keep the signal receiver away from the following items:

- Direct sunlight or other strong lights or heat
- Flat panel television screen or other electrical appliances that react to the remote controller

Additionally, the air conditioner will not operate if curtains, doors or other materials block the signals from the remote controller to the indoor unit. If the signal may not be transmitted properly, either move these materials or consult your local dealer.





Operation instructions

Operation modes

Selecting mode

Each time **MODE** button is pressed, the operation mode is changed in sequence:

COOLING → DRY → FAN ONLY → HEATING

1

☑ Heating mode is **NOT** available for cooling only air conditioner.

FAN mode

Each time the "FAN" button is pressed, the fan speed is changed in sequence:

Auto → High → Medium → Low

2

☑ At "FAN ONLY" mode, only "High", "Medium" and "Low" are available.
At "DRY" mode, Fan speed is set at "AUTO" automatically, "FAN" button is ineffective in this case.

Setting temperature



Press once to raise temperature setting by 1°C



Press once to lower temperature setting by 1°C

3




Range of Available Set Temperature	UAE	Other GCC markets
*HEATING, COOLING	20°C ~ 28°C	16°C ~ 30°C
DRY	-7 ~ 7	-7 ~ 7
FAN ONLY	unable to set	unable to set

Note: Heating mode is **NOT** available for cooling only models.

Note: At "Dry" mode, the unit can decrease or rise 2°C if you still feel uncomfortable. (For the inverter you can choose from -7 to 7.)

Turning on

Press  button, when the appliance receives the signal, the RUN indicator of the indoor unit lights up.

4

SWING, SMART, TIMER ON, TIMER OFF, CLOCK, SLEEP and SUPER operation modes will be specified in the following pages.

- ☑ Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
- During heating operation, air flow is not discharged at the beginning. After 2—5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.
- Wait 3 minutes before restarting the appliance.





Operation instructions

Airflow direction control

Airflow direction control

Vertical airflow(Horizontal airflow) is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward

The direction of airflow can be also adjusted to your own requirement by pressing the "SWING" button of the remote controller.

5



**Heating mode is only available for heat pump models.*



Vertical airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "◆SWING" button once, the vertical adjustment louver will swing up and down automatically.

Desired direction airflow

Pressing the "◆SWING" button again when the louvers swing to a suitable angle as desired.

Horizontal airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

Pressing "◆SWING" button once, the horizontal adjustment louver will swing left and right automatically.

Desired direction airflow

Pressing the "◆SWING" button again when the louvers swing to a suitable angle as desired.

A Do not turn the vertical adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.

B It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.



Operation instructions

SMART mode

Press the **SMART** button, the unit enters **SMART** mode(preset logic operation) directly. In this mode, temperature and fan speed are automatically set based on the actual room temperature.

Operation mode and temperature are determined by indoor temperature

Heat pump models

Indoor temperature	Operation mode	Target temperature
21°C or below	HEATING	22°C
21°C-23°C	FAN ONLY	
23°C-26°C	DRY	Room temperature decrease 2°C after operate for 3 minutes
Over 26°C	COOLING	26°C

Cooling only models

Indoor temperature	Operation mode	Target temperature
23°C or below	FAN ONLY	
23°C-26°C	DRY	Room temperature decrease 2°C after operate for 3 minutes
Over 26°C	COOLING	26°C



❑ **SMART** button is ineffective in **SUPER** mode.

❑ Press **MODE** button to cancel **SMART** mode.

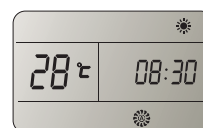
Note: Temperature, airflow and direction are controlled automatically in **SMART** mode. However, For the on/off, you can choose from -2 to 2, for the inverter you can choose from -7 to 7, if you still feel uncomfortable.

What you can do in SMART mode

Your feeling	button	adjustment procedure
Uncomfortable because of unsuitable air flow volume.	FAN	Indoor fan speed alternates among High, Medium and Low each time this button is pressed.
Uncomfortable because of unsuitable flow direction.	SWING	Press it once, the vertical adjustment louver swings to change vertical airflow direction. Press it again, swings stops. For horizontal airflow direction, please refer to the previous page for details.

CLOCK button

You can adjust the real time by pressing **CLOCK** button, then using and buttons to get the correct time, press **CLOCK** button again the real time is set.







Operation instructions

Timer mode

It is convenient to set the timer on with **TIMER ON/OFF** buttons when you go out in the morning to achieve a comfortable room temperature at the time you get home. You can also set timer off at night to enjoy a good sleep.

► How to set **TIMER ON**



TIMER ON button can be used to set the timer programming as wished in order to switch on the appliance at your desired time.



- i) Press TIMER ON button, "ON 12:00" flashes on the LCD, then you can press the  or  buttons to select your desired time for appliance on.

 Increase

 Decrease



Press the  or  button to increase or decrease the time setting by 1 minute.

Press the  or  button for 2 seconds to increase or decrease the time setting by 10 minute.

Press the  or  button for a longer time to increase or decrease the time by 1 hour.

Note: If you don't set the time in 10 seconds after you press TIMER ON button, the remote controller will exit the **TIMER ON mode automatically.**

- ii) When your desired time displayed on LCD, press the TIMER ON button and confirm it.

A "beep" can be heard.

"ON" stops flashing.

The **TIMER indicator on the indoor unit lights up.**

- iii) After the set timer displayed for 5 seconds the clock will be displayed on the LCD of the remote controller instead of set timer.

► How to cancel **TIMER ON**

Press the TIMER ON button again, a "beep" can be heard and the indicator disappears, the **TIMER ON** mode has been canceled.

Note: It is similar to set **TIMER OFF, you can make the appliance switch off automatically at your desired time.**



Operation instructions

SLEEP mode

SLEEP mode

SLEEP mode can be set in **COOLING, HEATING or DRYING** operation mode. This function gives you a more comfortable environment for sleep.


In **SLEEP** mode,

- The appliance will stop operation automatically after operating for 8 hours.
- Fan speed is automatically set at low speed.
- * Set temperature will rise by 2°C at most if the appliance operates in cooling mode for 2 hours constantly, then keeps steady.
- Set temperature will decrease by 2°C at most if the appliance operates in heating mode for 2 hours constantly, then keeps steady.
- * **Note: In cooling mode, if room temperature is 26°C or above, set temperature will not change.**
Note: Heating is NOT available for cooling only air conditioner.
Note: Press SUPER, SMART, MODE, SLEEP or FAN button cancel SLEEP mode.



SUPER mode

SUPER mode

- **SUPER** mode is used to start or stop fast cooling.
 In SUPER mode, the super indicator  will display on LCD
 In fast cooling, the unit operates at the highest fan speed, and changes the set temperature to the lowest temperature settable.
 For UAE, in Super mode the unit operates at 20°C and highest fan speed cool.
 For other regions, in Super mode the unit operates at 16°C and highest fan speed cool.
- Once Set temperature is changed, the unit will escape from Super mode to normal cool mode.
- **SUPER** mode can be set when the appliance is in operation or energized.

Note:

- **SMART** button is not available in **SUPER** mode.
- The Appliance will continue working in **SUPER** mode, if you don't escape from it by pressing any of the buttons mentioned above.
- For the first generation of products, you can't set temperature in super mode, but you can press **TEMPERATURE SETTING** button to escape super mode.



Models Range

Range	Model Number	Power Supply	Compressor	Refrigerant
1.5 TR	HW18CJRRRA3-01	220 - 240 V / 50 Hz / 1 Ph	Reciprocating	R22
2.0 TR	HW24CJRRRA3-01	220 - 240 V / 50 Hz / 1 Ph	Reciprocating	R22
2.5 TR	HW30CDRRA3-01	220 - 240 V / 50 Hz / 1 Ph	Reciprocating	R22
3.0 TR	HW36CDRRA3-01	220 - 240 V / 50 Hz / 1 Ph	Reciprocating	R22
1.5 TR	HW18CJYRA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R22
2.0 TR	HW24CJYRA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R22
2.5 TR	HW30CDYRA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R22
1.5 TR	HW18CJYFA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R410A
2.0 TR	HW24CJYFA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R410A
2.5 TR	HW30CDYFA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R410A
3.0 TR	HW36CDYFA3-01	220 - 240 V / 50 Hz / 1 Ph	Rotary	R410A



Customer Care

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Notes



E-Waste Management

Protect the Environment from E-Waste

This product at its end of usable life should not be mixed with household domestic waste or any general waste. It must be stored separately and disposed of through an authorised recycler of electrical and electronic appliance waste.

As guided by these rules, this product needs to be disposed of after its useful life in a scientific and prescribed manner. As a responsible citizen, we request your cooperation in helping conserve the environment for future generations.

DOs and DON'Ts

DOs:

- Run and maintain machine as per instructions given in the User's Manual.
- Engage only an authorised person to attend to repairs of your machine.
- Email on the customer care email id for assistance to dispose of your machine if required.
- Engage only an authorised person for uninstallation.
- Consult our local authorised distributor/dealer or email on the customer care email id to know the lifespan of your product.

DON'Ts:

- Do not try to repair/dismantle your machine by yourself.
- Do not engage any unauthorised person to repair/dismantle your machine or any of its parts.
- Do not sell or dispose of your machine or its parts to a local scrap dealer.
- Do not dispose of E-Waste in landfills or leave it outside unattended.
- Do not put the product to any other use post its end-of-life.

